ABSTRACT OF THE DISCLOSURE

A method for measuring and characterizing the nonlinearities of a display device by adaptive bisection using human perception for measurement. This method makes no assumptions about a display device's characteristics and can characterize any type of display device with any arbitrarily complex monotonic display transfer function. Unlike other display measurement solutions, this process is completely software based and has no hardware measurement device requirements that would raise costs and limit portability. As a result, this process can be distributed and applied commercially at a very low cost.